Datasheet: 0300-0578P

Description:	SHEEP ANTI HUMAN ALKALINE PHOSPHATASE (BAP):HRP
Specificity:	ALKALINE PHOSPHATASE (BAP)
Other names:	AP
Format:	HRP
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	1 ml

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified IgG conjugated to Horseradish Peroxidase (HRP) - liquid
Antiserum Preparation	Antisera to human alkaline phosphatase were raised by repeated immunisations of sheep with highly purified antigen. Purified IgG prepared by affinity chromatography on protein G.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.01% Thiomersal
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Alkaline phosphatase from human bone
External Database Links	**UniProt:**

P05186 Related reagents

Entrez Gene:

249 ALPL Related reagents

RRID	AB_1172071
Specificity	**Sheep anti Human alkaline phosphatase (Bap) antibody** recognizes human bone alkaline phosphatase (BAP), a membrane-bound hydrolase enzyme expressed by osteoblast cells. Alkaline phosphatase (AP) is a ubiquitously expressed enzyme which removes phosphate groups from target molecules, including DNA, RNA and alkaloids, under alkaline conditions, and is present at higher concentrations in the placenta (placental AP), intestines (intestinal AP) and liver/bone/kidney (tissue non-specific AP). Although the exact biochemical function of BAP is uncertain, measurement of the serum levels of BAP can be used as a biochemical indicator of bone turnover. Conditions which present with a decrease in the level of BAP (hypophosphatasemia) include the inherited bone-deforming disorder hypophosphatasia and osteoporosis, whilst an increase in BAP (hyperphosphatasemia) is associated with Paget's disease, bone fractures and osteosarcomas.
References	1. LiuMi, a.o. *et al.* (2017) Fluorescent microsphere immunochromatographic assays for detecting bone alkaline phosphatase based on biolayer interferometry-selected antibody RSC Adv. 7 (52): 32952-9.
Further Reading	1. Farley, J. & Baylink, D.J. (1995) Skeletal alkaline phosphatase activity in serum. Clin Chem. 41 (11): 1551-3.
Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10094 available at: 10094: https://www.bio-rad-antibodies.com/uploads/MSDS/10094.pdf
Regulatory	For research purposes only

Related Products

Recommended Useful Reagents

AbGUARD® HRP STABILIZER PLUS (BUF052A)
AbGUARD® HRP STABILIZER PLUS (BUF052B)
AbGUARD® HRP STABILIZER PLUS (BUF052C)

TMB CORE (BUF056A)
TMB CORE+ (BUF062A)
TMB SIGNAL+ (BUF054A)

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Look out for updates on how to access your digital version at bio-rad-antibodies.com

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